



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
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## NOTICE OF ACCEPTANCE (NOA)

Simon Roofing and Sheet Metal Corp. dba SR Products  
30505 Bainridge Road, Suite 210  
Solon, OH 44139

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: SR Products APP Modified Bitumen Roofing Systems Over Steel Decks

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 22.

The submitted documentation was reviewed by Alex Tigera.



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## ROOFING ASSEMBLY NOTICE OF ACCEPTANCE

**Category:** Roofing  
**Sub-Category:** Modified Bitumen  
**Material:** APP  
**Deck Type:** Steel  
**Maximum Design Pressure:** -135 psf

### TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<b><u>Product</u></b>	<b><u>Dimensions</u></b>	<b><u>Test Specification</u></b>	<b><u>Product Description</u></b>
SR Glass Base Felt	36" x 108'	ASTM D 4601	An asphaltic, fiberglass reinforced base sheet
SRM Glass 4 or SR Glass IV	36" X 180'	ASTM D 2178	An asphaltic, fiberglass reinforced, ASTM D2178 Type IV ply sheet.
SRM Glass 6 or SR Glass VI	36" X 180'	ASTM D 2178	An asphaltic, fiberglass reinforced, ASTM D2178 Type VI ply sheet.
IRO Ply SA-4	39-3/8" X 32' 9"	ASTM D 6222 Type I, Grade S	Polyester reinforced, smooth surfaced, APP modified bitumen base / interply sheet.
IRO Ply SA-4 Plus	39-3/8" X 32' 9"	ASTM D 6222 Type I, Grade S	Torch applied, smooth surfaced, polyester reinforced, APP modified bitumen membrane
IRO Ply MA-4	39-3/8" X 32' 9"	ASTM D 6222 Type I, Grade M	Polyester reinforced, mineral granule surfaced, APP modified bitumen cap sheet.
IRO Ply 180S APP	39-3/8 x 32' 9"	ASTM D 6222 Type I, Grade S	Smooth surfaced, polyester reinforced APP modified bitumen membrane with talc underside.
IRO Ply 180M APP	39-3/8 X 32' 9"	ASTM D 6222 Type I, Grade G	Smooth surfaced, polyester reinforced APP modified bitumen membrane with slag underside.
IRO Ply 180FR APP	39-3/8" x 32' 9"	ASTM D 6222 Type I, Grade G	Granule surfaced, polyester reinforced, fire resistant, APP modified bitumen membrane with slag underside.
IRO Ply SA-4 Premium	39-3/8" x 32' 9"	ASTM D 6222 Type I, Grade S	Smooth surfaced, polyester reinforced, APP modified bitumen base / interply sheet.
IRO Ply SA-4.8 Premium	39-3/8" x 32' 9"	ASTM D 6222 Type I, Grade S	Smooth surfaced, polyester reinforced, APP modified bitumen base / interply sheet.
IRO Ply MA-4 Premium	39-3/8" x 32' 9"	ASTM D 6222 Type I, Grade G	Polyester reinforced, granule surfaced APP modified bitumen cap sheet.
IRO Ply MA-4 Premium FR	39-3/8" X 32' 9"	ASTM D 6222 Type I, Grade G	Polyester reinforced, mineral granule surfaced, fire resistant, APP modified bitumen cap sheet.
IRO Ply APP MB Adhesive	5 gal. or 350 gal.	ASTM D3019	An asphalt based polymer modified adhesive.
AF Aluma-Brite Asphalt Fibrated Roof Coating	5 gal	ASTM D 2824 Type III	A hydrocarbon protective coating.

**APPROVED INSULATIONS:****TABLE 2**

<b><u>Product Name</u></b>	<b><u>Product Description</u></b>	<b><u>Manufacturer (With Current NOA)</u></b>
ACFoam-II, ACFoam-III	Polyisocyanurate Insulation	Atlas Roofing Corporation
ACFoam-IV, Tapered ACFoam	Polyisocyanurate insulation with a coated glass mat.	Atlas Roofing Corporation
ACFoam Composite	Polyisocyanurate Insulation	Atlas Roofing Corporation
ENRGY 3	Polyisocyanurate Insulation	Johns Manville Corporation
ISO 95+ GL	Polyisocyanurate foam insulation	Firestone Building Products Company, LLC
H-Shield, Tapered H-Shield, H-Shield CG, H-Shield WF	Polyisocuanurate foam insulation	Hunter Panels, LLC
Multi-Max-3, Multi-Max FA-3	Polyisocyanurate Insulation	Rmax Operating, LLC
Tapered Thermarroof-3	Polyisocyanurate insulation	Rmax Operating, LLC
DensDeck, DensDeck Prime, DensDeck DuraGuard Overlayment Board, DensDeck DuraGuard Roof Board	Water resistant gypsum board	Georgia-Pacific Gypsum LLC
SECUROCK Gypsum-Fiber Roof Board	Gypsum board	United States Gypsum Corporation
FescoBoard	Expanded mineral fiber insulation	Johns Manville Corporation
Perlite Insulation Board	Perlite insulation board	Generic
Structodek High Density Fiberboard Roof Insulation	High Density Wood Fiber insulation board.	Blue Ridge Fiberboard, Inc.



## APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	#12 Standard Roofgrip	Self drilling, carbon steel fastener with a CR-10 coating	Various	OMG, Inc.
2.	OMG Heavy Duty	Self drilling fastener for steel used wood, steel or concrete decks	Various	OMG, Inc.
3.	3 in. Ribbed Galvalume Plates	Round Galvalume plated steel plate with reinforcing ribs	3" Round	OMG, Inc.
4.	OMG 3" Galvalume Steel Plate	Galvalume coated steel plate	3" Round	OMG, Inc.
5.	3 in. Round Metal Plates	Insulation fastening plate	3" Round	OMG, Inc.
6.	Trufast 3" Metal Insulation Plate	Galvalume steel stress plate	3" Diameter	Altenloh, Brinck & Co. U.S., Inc.
7.	Trufast 3" Metal Insulation Plate Recessed	Galvalume metal plate	3" Round	Altenloh, Brinck & Co. U.S., Inc.
8.	Trufast #12 DP	Self-drilling, carbon steel fastener used in steel and wood decks. Tru-Kote PC-3 coating.	Various	Altenloh, Brinck & Co. U.S., Inc.
9.	Trufast #14 HD Fastener	Self-drilling, carbon steel fastener used in concrete, steel and wood decks. Tru-Kote PC-3 coating.	Various	Altenloh, Brinck & Co. U.S., Inc.
10.	Trufast SIP TP Fastener	Self-drilling, carbon steel fastener used in steel and wood decks. Tru-Kote PC-3 coating.	Various	Altenloh, Brinck & Co. U.S., Inc.
11.	Trufast #15 EHD Fastener	Carbon steel fastener used in concrete, steel and wood decks. Tru-Kote PC-3 coating.	Various	Altenloh, Brinck & Co. U.S., Inc.
12.	Dekfast 12 or 14	Insulation fastener used wood, steel and concrete decks	Various	SFS Intec, Inc.
13.	Dekfast Galvalume Steel Hex	Galvalume hex stress plate.	2-7/8" Hex	SFS Intec, Inc.
14.	Dekfast Galvalume Steel 3" Round	Galvalume steel plate	3" Round	SFS Intec, Inc.
15.	#14 Roofgrip	Self drilling fastener for steel used wood, steel or concrete decks	Various	OMG, Inc.

**EVIDENCE SUBMITTED:**

<b><u>Test Agency</u></b>	<b><u>Test Identifier</u></b>	<b><u>Description</u></b>	<b><u>Date</u></b>
Factory Mutual Research Corp.	2D5A9.AM	FM 4450	06/22/99
	3032172	FM 4470	06/12/09
	3029655	FM 4470	02/25/08
	3024973	FM 4470	11/10/06
Exterior Research & Design, LLC	2005.U0212.09.05-R1	FM 4470	03/31/10
	U0230.12.06-R1	FM 4470	03/31/10
	U0215.05.06-2-R2	ASTM D6222	08/02/10
	U33320.10.10	TAS 114 / FM 4470	10/13/10
	U30120.11.10	TAS 114 / FM 4470	11/09/10
	U41790.05.12-1	ASTM D6222 & TAS 110	05/30/12
	U41790.05.12-2	ASTM D6222 & TAS 110	05/30/12
	U35910.12.11-1	TAS 117	12/21/11
	U35910.12.11-3	ASTM D1878	12/21/11

## APPROVED ASSEMBLIES

**Membrane Type:** APP

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 22 ga. Type B, steel deck

**System Type B(1):** Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<b><u>Base Insulation Layer</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
ACFoam-II, ACFoam-III, Tapered ACFoam, Multi-Max FA-3, Tapered Thermarroof-3 Minimum 1.5" thick	3, 4 with 1, 2 3 with 1, 15 6, 7 with 8	1 : 4 ft <sup>2</sup>
H-Shield, Tapered H-Shield Minimum 2.0" thick	3, 4 with 1, 2 3 with 1, 15 6, 7 with 8	1 : 4 ft <sup>2</sup>

**Note:** Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<b><u>Top Insulation Layer</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
FescoBoard Minimum ¾" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ½" thick	N/A	N/A

**Note:** Top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 25 lbs/sq<sup>2</sup> Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

**Base Sheet:** One ply of SR Glass Base Felt, SRM Glass 4 or SR Glass IV or SRM Glass 6 or SR Glass VI, fully adhered with hot asphalt to coverboard.



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<b>Ply Sheet:</b>	(Optional) One or more layers of IRO Ply SA-4, IRO Ply SA-4 Plus, IRO Ply 180S APP, IRO Ply SA-4.8 Premium or IRO Ply SA-4 Premium, heat welded.
<b>Membrane:</b>	One ply of IRO Ply 180M APP, IRO Ply 180FR APP, IRO Ply MA-4, IRO Ply MA-4 Premium or IRO Ply MA-4 Premium FR, heat welded.
<b>Surfacing:</b>	For use on non FR membranes: AF Aluma-Brite Asphalt Fibered Roof Coating applied at a rate of 1.5 gal/sq.
<b>Maximum Design Pressure:</b>	- 45 psf (See General Limitation #9).



**Membrane Type:** APP

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Type B, steel deck attached to structural steel supports spaced max. 6 ft o.c. attached with Teks/5 fasteners spaced max. 6 in. o.c. at the supports. Deck side laps secured with two Teks/1 fasteners evenly spaced between supports.

**System Type B(2):** Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<b><u>Base Insulation Layer</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
ACFoam-II, ACFoam-III, Tapered ACFoam, Multi-Max FA-3, H-Shield, Tapered H-Shield Minimum 2" thick	3, 4 with 2 3 with 15 6, 7 with 9	1 : 1.45 ft <sup>2</sup>

**Note:** Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<b><u>Top Insulation Layer</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ½" thick	N/A	N/A

**Note:** Top layer of insulation shall be adhered with 3M CR-20 Polyurethane Foam Insulation Adhesive or TITSEET Roofing Adhesive spray applied with 3 to 3 ½ inch wide beads spaced 6" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

**Base Sheet:** One ply of IRO Ply SA-4, IRO Ply SA-4 Plus, IRO Ply 180S APP, IRO Ply SA-4.8 Premium or IRO Ply SA-4 Premium, heat welded.

**Ply Sheet:** (Optional) One or more layers of IRO Ply SA-4, IRO Ply SA-4 Plus, IRO Ply 180S APP, IRO Ply SA-4.8 Premium or IRO Ply SA-4 Premium, heat welded.

**Membrane:** One ply of 180M APP, IRO Ply 180FR APP, IRO Ply MA-4, IRO Ply MA-4 Premium or IRO Ply MA-4 Premium FR, heat welded.

**Surfacing:** For use on non FR membranes:  
AF Aluma-Brite Asphalt Fibered Roof Coating applied at a rate of 1.5 gal/sq.

**Maximum Design Pressure:** - 52.5 psf (See General Limitation #7).





**Membrane Type:** APP

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Type B, steel deck attached to structural steel supports spaced max. 6 ft o.c. attached with Teks/5 fasteners spaced max. 6 in. o.c. at the supports. Deck side laps secured with two Teks/1 fasteners evenly spaced between supports.

**System Type B(3):** Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, ACFoam-III, Tapered ACFoam, Multi-Max FA-3, H-Shield, Tapered H-Shield Minimum 2" thick	3, 4 with 2 3 with 15 6, 7 with 9	1 : 1.45 ft <sup>2</sup>

**Note:** Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ½" thick	N/A	N/A

**Note:** Top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 25 lbs/sq<sup>2</sup> or with OlyBond 500 Adhesive applied with ¾ to 1 in wide beads spaced 6" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

**Base Sheet:** One ply of IRO Ply SA-4, IRO Ply SA-4 Plus, IRO Ply 180S APP, IRO Ply SA-4.8 Premium or IRO Ply SA-4 Premium, heat welded

**Ply Sheet:** (Optional) One or more layers of IRO Ply SA-4, IRO Ply SA-4 Plus, IRO Ply 180S APP, IRO Ply SA-4.8 Premium or IRO Ply SA-4 Premium, heat welded.

**Membrane:** One ply of IRO Ply 180M APP, IRO Ply 180FR APP, IRO Ply MA-4, IRO Ply MA-4 Premium or IRO Ply MA-4 Premium FR, heat welded.

**Surfacing:** For use on non FR membranes:  
AF Aluma-Brite Asphalt Fibered Roof Coating applied at a rate of 1.5 gal/sq.

**Maximum Design Pressure:** - 60 psf (See General Limitation #7).



**Membrane Type:** APP  
**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 22 ga. Type B, Grade 33 steel deck welded 6" o.c. to steel supports spaced 6' o.c.  
**System Type B(4):** Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<b><u>Base Insulation Layer</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
ACFoam-II, Multi-Max FA-3 Minimum 2" thick	5 with 1 6 with 8	1 : 2 ft <sup>2</sup>

**Note:** Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<b><u>Top Insulation Layer</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
SECUROCK Gypsum-Fiber Roof Board Minimum 3/8" thick	N/A	N/A

**Note:** Top layer of insulation shall be adhered with Insta-Stik Quik Set Insulation Adhesive, OMG OlyBond 500, Millennium Pourable Foam Adhesive, Millennium One-Step Foamable Adhesive, 3M CR-20 Polyurethane Foam Insulation Adhesive or TITSEET Roofing Adhesive applied in 1" wide beads spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment..

**Base Sheet:** One ply of IRO Ply SA-4, IRO Ply SA-4 Plus, IRO Ply 180S APP, IRO Ply SA-4.8 Premium or IRO Ply SA-4 Premium, heat welded

**Ply Sheet:** (Optional) One or more layers of IRO Ply SA-4, IRO Ply SA-4 Plus, IRO Ply 180S APP, IRO Ply SA-4.8 Premium or IRO Ply SA-4 Premium, heat welded.

**Membrane:** One ply of IRO Ply 180M APP, IRO Ply 180FR APP, IRO Ply MA-4, IRO Ply MA-4 Premium or IRO Ply MA-4 Premium FR, heat welded.

**Surfacing:** For use on non FR membranes:  
AF Aluma-Brite Asphalt Fibered Roof Coating applied at a rate of 1.5 gal/sq.

**Maximum Design Pressure:** - 60 psf (See General Limitation #7).



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**Membrane Type:** APP

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 22 ga. Type B, Grade 33 steel, fastened 6" o.c. with Buildex Tek 5 fasteners to steel supports spaced max. 6 ft o.c.

**System Type B(5):** Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<b><u>Base Insulation Layer</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
<b>ISO 95+ GL, ENRGY 3 Minimum 2.0" thick</b>	<b>15, 2 with 5</b>	<b>1 : 1.6 ft<sup>2</sup></b>
<b>ACFoam-II, Multi-Max FA-3 Minimum 2.0" thick</b>	<b>6 with 9 15, 2 with 5</b>	<b>1 : 1.6 ft<sup>2</sup></b>

**Note:** Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<b><u>Top Insulation Layer</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
<b>FescoBoard Minimum ¾" thick</b>	<b>N/A</b>	<b>N/A</b>
<b>Structodek High Density Fiberboard Roof Insulation Minimum ½" thick</b>	<b>N/A</b>	<b>N/A</b>
<b>DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or DensDeck DuraGuard Overlayment Board Minimum ¼" thick</b>	<b>N/A</b>	<b>N/A</b>

**Note:** Top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 25 lbs/sq<sup>2</sup> Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

**Base Sheet:** One ply of SR Glass Base Felt is fully adhered with hot asphalt to coverboard.

**Ply Sheet:** (Optional) One or more layers of IRO Ply SA-4, IRO Ply SA-4 Plus, IRO Ply 180S APP, IRO Ply SA-4.8 Premium or IRO Ply SA-4 Premium, heat welded.

**Membrane:** One ply of IRO Ply 180M APP, IRO Ply 180FR APP, IRO Ply MA-4, IRO Ply MA-4 Premium or IRO Ply MA-4 Premium FR, heat welded.



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**Surfacing:** For use on non FR membranes:  
AF Aluma-Brite Asphalt Fibered Roof Coating applied at a rate of 1.5 gal/sq.

**Maximum Design Pressure:** - 67.5 psf (See General Limitation #7).0



**Membrane Type:** APP

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Type B, steel deck attached to structural steel supports spaced max. 6 ft o.c. attached with Teks/5 fasteners spaced max. 6 in. o.c. at the supports. Deck side laps secured with two Teks/1 fasteners evenly spaced between supports.

**System Type B(6):** Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, ACFoam-III, Tapered ACFoam, Multi-Max FA-3, H-Shield, Tapered H-Shield Minimum 2" thick	3, 4 with 1, 2 3 with 1, 15 6 with 8	1 : 1.45 ft <sup>2</sup>

**Note:** Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A

**Note:** Top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 25 lbs/sq<sup>2</sup> Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

**Base Sheet:** One ply of SR Glass Base Felt, SRM Glass 4 or SR Glass IV or SRM Glass 6 or SR Glass VI, fully adhered with hot asphalt to coverboard.

**Ply Sheet:** (Optional) One or more layers of IRO Ply SA-4, IRO Ply SA-4 Plus, IRO Ply 180S APP, IRO Ply SA-4.8 Premium or IRO Ply SA-4 Premium, heat welded.

**Membrane:** One ply of IRO Ply 180M APP, IRO Ply 180FR APP, IRO Ply MA-4, IRO Ply MA-4 Premium or IRO Ply MA-4 Premium FR, heat welded.

**Surfacing:** For use on non FR membranes:  
AF Aluma-Brite Asphalt Fibered Roof Coating applied at a rate of 1.5 gal/sq.

**Maximum Design Pressure:** - 67.5 psf (See General Limitation #7).



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**Membrane Type:** APP

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Type B, steel deck attached to structural steel supports spaced max. 6 ft o.c. attached with Teks/5 fasteners spaced max. 6 in. o.c. at the supports. Deck side laps secured with two Teks/1 fasteners evenly spaced between supports.

**System Type B(7):** Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<b><u>Base Insulation Layer</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
<b>ACFoam-II, ACFoam-III, Tapered ACFoam, Multi-Max FA-3, H-Shield, Tapered H-Shield</b>		
<b>Minimum 2" thick</b>	<b>3, 4 with 1, 2 3 with 1, 15 6 with 8</b>	<b>1 : 1.45 ft<sup>2</sup></b>

**Note:** Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<b><u>Top Insulation Layer</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
<b>FescoBoard Minimum 3/4" thick</b>	<b>N/A</b>	<b>N/A</b>

**Note:** Top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 25 lbs/sq<sup>2</sup> Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

**Base Sheet:** One ply of SR Glass Base Felt, SRM Glass 4 or SR Glass IV or SRM Glass 6 or SR Glass VI, fully adhered with hot asphalt to coverboard.

**Ply Sheet:** (Optional) One or more layers of IRO Ply SA-4, IRO Ply SA-4 Plus, IRO Ply 180S APP, IRO Ply SA-4.8 Premium or IRO Ply SA-4 Premium, heat welded.

**Membrane:** One ply of IRO Ply 180M APP, IRO Ply 180FR APP, IRO Ply MA-4, IRO Ply MA-4 Premium or IRO Ply MA-4 Premium FR, heat welded.

**Surfacing:** For use on non FR membranes:  
AF Aluma-Brite Asphalt Fibered Roof Coating applied at a rate of 1.5 gal/sq.

**Maximum Design Pressure:** - 75 psf (See General Limitation #7).



**Membrane Type:** APP

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 22 ga., Type B, Grade 33 steel deck

**System Type C(1):** All layers of insulation mechanically attached to roof deck. Membrane is subsequently fully or partially adhered to insulation.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft<sup>2</sup></u>
ACFoam-II, ACFoam-III, Tapered ACFoam, Multi-Max FA-3, H-Shield or Tapered H-Shield Minimum 1.5" thick	N/A	N/A

**Note:** All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft<sup>2</sup></u>
DensDeck DuraGuard Overlayment Board Minimum ¼" thick	1, 2 with 3, 4 3 with 1, 15 8 with 6	1:2 ft <sup>2</sup>

**Base Sheet:** One ply of IRO Ply 180S APP, IRO Ply SA-4.8 Premium or IRO Ply SA-4 Premium, heat welded to coverboard.  
Or  
One ply of IRO Ply 180S APP adhered with IRO Ply APP MB Adhesive at a rate of 1.5 – 2.0 gal/sq (0.6 – 0.8 l/m<sup>2</sup>).

**Membrane:** One ply of IRO Ply 180M APP, IRO Ply 180FR APP, IRO Ply MA-4 Premium or IRO Ply MA-4 Premium FR, heat welded.  
Or  
One ply of IRO Ply 180M APP or IRO Ply 180FR APP adhered with IRO Ply APP MB Adhesive at a rate of 1.5 – 2.0 gal/sq (0.6 – 0.8 l/m<sup>2</sup>).

**Surfacing:** For use on non FR membranes:  
AF Aluma-Brite Asphalt Fibered Roof Coating applied at a rate of 1.5 gal/sq.

**Maximum Design Pressure:** -45.0 (See General Limitation #9).



**Membrane Type:** APP

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 22 ga., Type B, Grade 33 steel deck

**System Type C(2):** All layers of insulation mechanically attached to roof deck. Membrane is subsequently fully or partially adhered to insulation.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<b><u>Base Insulation Layer</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
<b>ACFoam-II, H-Shield ENRGY 3 or ISO 95+ GL Minimum 1.5" thick</b>	N/A	N/A

**Note:** All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<b><u>Top Insulation Layer</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
<b>SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick</b>	<b>15, 1, 2 with 4 9, 8 with 6 12 with 13, 14</b>	<b>1:2 ft<sup>2</sup></b>

**Primer:** (Optional) Coverboard is primed with ASTM D41 primer applied at a rate of 0.75 gal/sq.

**Base Sheet:** One ply of IRO Ply 180S APP, IRO Ply SA-4.8 Premium or IRO Ply SA-4 Premium, heat welded to coverboard.  
Or  
One ply of IRO Ply 180S APP adhered with IRO Ply APP MB Adhesive at a rate of 1.5 – 2.0 gal/sq (0.6 – 0.8 l/m<sup>2</sup>).

**Membrane:** One ply of IRO Ply 180M APP, IRO Ply 180FR APP, IRO Ply MA-4 Premium or IRO Ply MA-4 Premium FR, heat welded.  
Or  
One ply of IRO Ply 180M APP or IRO Ply 180FR APP adhered with IRO Ply APP MB Adhesive at a rate of 1.5 – 2.0 gal/sq (0.6 – 0.8 l/m<sup>2</sup>).

**Surfacing:** For use on non FR membranes:  
AF Aluma-Brite Asphalt Fibered Roof Coating applied at a rate of 1.5 gal/sq.

**Maximum Design Pressure:** -45.0 (See General Limitation #9).



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**Approval Date:** 10/31/13  
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**Membrane Type:** APP

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 22 ga., Type B, Grade 33 steel deck fastened to supports spaced max. 6 ft o.c. with Teks/5 fasteners spaced max. 6 in. o.c.

**System Type C(3):** All layers of insulation mechanically attached to roof deck. Membrane is subsequently fully or partially adhered to insulation.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<b><u>Base Insulation Layer</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
<b>Multi-Max FA-3 Minimum 1.5" thick</b>	N/A	N/A

**Note:** All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<b><u>Top Insulation Layer</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
<b>SECUROCK Gypsum-Fiber Roof Board or DensDeck DuraGuard Roof Board Minimum ½" thick</b>	7 with 9	1:33 ft <sup>2</sup>

**Base Sheet:** One ply of IRO Ply 180S APP with IRO Ply APP MB Adhesive at a rate of 1.5 gal/sq (0.6 l/m<sup>2</sup>) or torch applied.

**Membrane:** One ply of IRO Ply 180M APP or IRO Ply 180FR APP adhered with IRO Ply APP MB Adhesive at a rate of 1.5 gal/sq (0.6 l/m<sup>2</sup>) or torch applied.

**Surfacing:** For use on non FR membranes:  
AF Aluma-Brite Asphalt Fibered Roof Coating applied at a rate of 1.5 gal/sq.

**Maximum Design Pressure:** -60.0 (See General Limitation #9).



**Membrane Type:** APP

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 22 ga., Type B, Grade 33 steel deck secured to supports spaced 6 ft o.c. using two Tek/5 screws with washers spaced 6" o.c. Side laps attached 12" o.c. using Tek/1 screws.

**System Type C(4):** All layers of insulation mechanically attached to roof deck. Membrane is subsequently fully or partially adhered to insulation.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<b><u>Base Insulation Layer</u></b>	<b><u>Insulation Fasteners</u> <u>(Table 3)</u></b>	<b><u>Fastener</u> <u>Density/ft<sup>2</sup></u></b>
<b>Any Approved Polyisocyanurate Insulation Listed in Table 2 Minimum 1.5" thick</b>	N/A	N/A

**Note:** All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<b><u>Top Insulation Layer</u></b>	<b><u>Insulation Fasteners</u> <u>(Table 3)</u></b>	<b><u>Fastener</u> <u>Density/ft<sup>2</sup></u></b>
<b>SECUROCK Gypsum-Fiber Roof Board, or DensDeck DuraGuard Roof Board Minimum ½" thick</b>	9 with 6	1:1 ft <sup>2</sup>

**Base Sheet:** One ply of IRO Ply 180S APP, IRO Ply SA-4.8 Premium or IRO Ply SA-4 Premium, heat welded to coverboard.  
Or  
One ply of IRO Ply 180S APP adhered with IRO Ply APP MB Adhesive at a rate of 1.5 – 2.0 gal/sq (0.6 – 0.8 l/m<sup>2</sup>).

**Membrane:** One ply of IRO Ply 180M APP, IRO Ply 180FR APP, IRO Ply MA-4 Premium or IRO Ply MA-4 Premium FR, heat welded.  
Or  
One ply of IRO Ply 180M APP or IRO Ply 180FR APP adhered with IRO Ply APP MB Adhesive at a rate of 1.5 – 2.0 gal/sq (0.6 – 0.8 l/m<sup>2</sup>).

**Surfacing:** For use on non FR membranes:  
AF Aluma-Brite Asphalt Fibered Roof Coating applied at a rate of 1.5 gal/sq.

**Maximum Design Pressure:** -67.5 (See General Limitation #7).



**Membrane Type:** APP

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 22 ga. Type B, steel deck attached to structural steel supports spaced max. 6 ft o.c. attached with Teks/5 fasteners spaced max. 6 in. o.c. at the supports.

**System Type D(1):** One or more layers of insulation and base sheet simultaneously attached.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<b><u>Base Insulation Layer</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
<b>ACFoam-II, ACFoam-III, Tapered ACFoam, ACFoam Composite, Multi-Max FA-3 Minimum 1.5" thick</b>	N/A	N/A
<b>H-Shield, Tapered H-Shield Minimum 2.0" thick</b>	N/A	N/A
<b><u>Top Insulation Layer</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
<b>DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick</b>	N/A	N/A
<b>FescoBoard Minimum ¾" thick</b>	N/A	N/A
<b>Structodek High Density Fiberboard Roof Insulation Minimum ½" thick</b>	N/A	N/A

**Note:** Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

**Base Sheet:** One ply of SR Glass Base Felt mechanically fastened to the deck with 3 in. Ribbed Galvalume Plate or OMG 3" Galvalume Steel Plate with #12 Standard Roofgrip or Heavy Duty fasteners or with Trufast 3" Metal Insulation Plates with Trufast #12 DP fasteners spaced 12" o.c. in 2" wide laps and 18" o.c. in two, equally spaced, staggered rows.

**Ply Sheet:** (Optional) One or more layers of IRO Ply SA-4, IRO Ply SA-4 Plus, IRO Ply 180S APP, IRO Ply SA-4.8 Premium or IRO Ply SA-4 Premium, heat welded.

**Membrane:** One ply of IRO Ply MA-4, IRO Ply 180M APP, IRO Ply 180FR APP, IRO Ply MA-4 Premium or IRO Ply MA-4 Premium FR, heat welded.



**Surfacing:** For use on non FR membranes:  
AF Aluma-Brite Asphalt Fibered Roof Coating applied at a rate of 1.5 gal/sq.

**Maximum Design Pressure:** -45.0 psf (See General Limitation #7)



**Membrane Type:** APP  
**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 22 ga. Type B, Grade 33 steel attached to structural steel supports spaced max. 6 ft o.c.  
**System Type D(2):** One or more layers of insulation and base sheet simultaneously attached.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Any Approved Polyisocyanurate Listed in Table 1 Minimum 2.0" thick	N/A	N/A
<u>Top Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, DensDeck DuraGuard Overlayment Board Minimum 1/4" thick	N/A	N/A

**Note:** Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

**Base Sheet:** One ply of SR Glass Base Felt mechanically fastened to the deck with OMG Heavy Duty fasteners with 3 in. Round Metal Plates, or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates or 3" Metal Plate T spaced 6" o.c. in a 4" side lap and 6" o.c. in two, equally spaced, staggered rows.

**Ply Sheet:** (Optional) One or more layers of IRO Ply SA-4, IRO Ply SA-4 Plus, IRO Ply 180S APP, IRO Ply SA-4.8 Premium or IRO Ply SA-4 Premium, heat welded.

**Membrane:** One ply of IRO Ply MA-4, IRO Ply 180M APP, IRO Ply 180FR APP, IRO Ply MA-4 Premium or IRO Ply MA-4 Premium FR, heat welded.

**Surfacing:** For use on non FR membranes:  
AF Aluma-Brite Asphalt Fibered Roof Coating applied at a rate of 1.5 gal/sq.

**Maximum Design Pressure:** -135.0 psf (See General Limitation #7)



## STEEL DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 137, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.

## GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer.
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**

## END OF THIS ACCEPTANCE